

(1) Number of pages 20

(2) Date of repair 9-2-39

(3) Initials of the Referencer 41

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.	<u>2559</u>	Press Mis.
<u>165-66</u> Dated	<u>12-12-1860.</u>	

Not to be folded or roughly handled

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No. 165. Read the following letter from Lieutenant-Colonel W. H. HORSLEY, Chief Engineer, to J. D. SIM, Esq., Acting Secretary to Government, dated Chepauk, 26th November 1860, No. 7,333 :—

SIR,

1. In paragraph 5 of my predecessor's letter, No. 7,130, dated 11th November 1859, it was reported that Plans and Estimates for repairing, or more properly improving, the Bridges over Cochrane's Canal near the General Hospital and the Basin, were called for by this Office. These Plans and Estimates were forwarded by the late Civil Architect on the 12th January and 11th February last, but owing to the restriction on expenditure it was considered inexpedient to send them up for sanction at that time, and I have now the honor of submitting them to Government for entry in the Budget of 1861-62, if approved of.

- 1 Letter from the District Engineer, Presidency (late Civil Architect), No. 29, 12th January, 1860.
- 1 Abstract Estimate Rupees 17,400
- 1 Letter from the late Civil Architect, No. 138, dated 11th February 1860.
- 1 Abstract Estimate Rupees 17,950.
- 1 Plan of General Hospital Gate Bridge.
- 1 Plan of the Basin Bridge.

2. Of the accompanying two Estimates, one amounting to Rupees 17,400, provides for widening the General Hospital Road Bridge from 25 to 40 feet, and reducing the slope of the two approaches to 1 in 40 feet, and the other amounting to Rupees 17,950, for widening the Basin Bridge from 17½ to 40 feet, and reducing the slope of the approaches to the same extent. All that has been said in the letter above quoted, respecting the traffic on the Elephant Gate Bridge, and the danger to which the public are exposed by the narrowness of its roadway and the steepness of its approaches, is applicable to the bridges for the improvement of which estimates are now submitted. The traffic over the Hospital Bridge is believed to be even greater, while a large portion of the traffic coming down the canal is carried over the bridge at the Basin. I, therefore, consider the proposed improvements, for widening their roadway and reducing the steepness of their approaches, to be very necessary, and I would recommend them to be carried into effect. The Estimate for the improvement of the Elephant Gate Bridge, amounting to Rupees 15,330 was sanctioned by Government in their orders No. 2,735, dated 23rd November 1859.

3. The want of additional waterway to these bridges has been very perceptible during a heavy monsoon and especially since the construction of the Lock and Calingulah at Shadien-coopum, by which the escape of the flood water to the north is obstructed. I have, therefore, allowed for increasing the two side arches from 20 to 32 feet with proportionate elevation.

4. The Plans and Estimates now submitted have undergone the usual scrutiny and examination in this Office, and, with the Estimate for the Elephant Gate Bridge, have been entered in the Budget for 1861-62, for which I have to request the sanction of Government.

No. 166. ORDER THEREON, 12th December 1860, No. 2,559.

The Governor in Council approves of these works, but considers that they may with propriety be executed from the proceeds of that portion of the Madras Income Tax collections which is to be devoted to public works. The Estimates will therefore be excluded from the Budget.

(Signed) J. D. SIM,
Acting Secretary to Government.

PUBLIC (ROADS)

ABSTRACT of Estimate No.

of 186

New Work

ROAD No.

DISTRICT

Presidency

WORK

25 to 40 feet in the Clear & Reducing the Slope of the 2 Approaches to one
 in 40 feet

Quantities.	Description of Work.	Rate.		Amount.	Amount of each part.
		Rs.	A. P.	Rupees.	Rupees.
	38. Sinking Brick wells filled with brick jelly & sand.				
	8 th Complete ———	42	"	1596	
58498	Cft. Brick work in Chumani	2	3	8226	
13311	S th Arch work in S th S th	3	6	2912	
	Constructing Centering for the above arch with Mango wood planks for Sleepers				
	3 rd Sort wall bricks in Clay for props palmira				
	for joists & brick in Clay for forming segment in-				
	-cluding mud plastering				
	8 th Complete & also taking down removing & Collecting the above materials after the Completion of the works ———			600	
322	Cft. Cordew work in Chumani	3	"	60	
19000	Sq ^{ft} Plastering with 2 Coats Chumani ———	2	"	380	
	Carried Over			13774	

Quantities.	Description of Work.	Rate.		Amount.	Amount of each part.
		Rs.	A. P.	Rupees.	Rupees.
	Brought Over				
	Constructing dam & erecting Cofferdam by driving 2 rows of Piles & facing them with fascine bundles - Stiff Clay Straw & scaffolding ropes & filling the intermediate space with common earth & lashing the pile heads with Coir ropes & baling water with succotals &c. & also Coaly hire for removing & collecting the above materials after the completion of the works.			800	
	Coaly hire for cutting & removing part of the masonry of the present bridge - Excavating the foundation filling with earth over the arches & between the wing walls &c.			600	
	Carried Over				

Quantities.	Description of work.	Rate.		Amount.	Amount of each part.
		Rs.	A. P.	Rupees.	Rupees.
	Brought Over				
11800	Suppl ^{te} Laying road with granite stone & jelly in clay & gravel of 6 in thick & well beaten down with water & strewed over with sea sand.	2	10	7	314
	Sundry Charges & Scaffolding &c.				752
					16210
	N ^o 2.				
	Raising & Approach between the Bridge & General Hospital Gate.				
2624	Cy ^{te} Brick work in Chunariffa	2	3		369
14400	Suppl ^{te} Plastering with 2 coats Chunariffa	1	13	9	82
	Fixing 14 old Posts of the turn styles				1
	Excavating the foundation & levelling the earth & also removing the old parapet walls				10
1291	Cy ^{te} Raising & filling with earth from the wing wall to the gate & well beaten down with water for forming new slope of an in 40 the earth being obtained from the dam & River &c.	1	3		101
	Carried Over				16240

Quantities	Description of work	Rate	Amount	Amount of each part
		Rs. & P.	Rupees	Rupees
	Brought Over			16240
12400	Suppl ^g Laying road with laterite Stone Jelly in Clay & gravel of 6 ins & well beaten down with water & strewed over with Sea Sand— $\frac{1}{2}$ Sq ^m 2 10 7		330	
	Sundry Charges $\frac{1}{2}$		12	
				905
	No 3			
	Raising one approach on the west Side of the Bridge—			
350	Cy ^m Raising & filling with earth from the wing walls to the road & well beaten down with water for forming new Slope of one in 40. the earth being obtained from the river & adjoining ground $\frac{1}{2}$ Cy ^m 1 3		27	
8400	Suppl ^g Laying road with laterite Stone Jelly in Clay & gravel of 6 ins thick & well beaten down with water & strewed over the Sea Sand— $\frac{1}{2}$ Sq ^m 2 10 7		224	
	Carried Over			

PUBLIC (ROADS)

ABSTRACT of Estimate No.

of 186

New Work

ROAD No.

DISTRICT

Presidency

WORK

Widening the Basin Bridge from 17 $\frac{1}{2}$ to 40 feet in the Clear & reducing the Slope of the 2 approaches to one in 40 feet.

Quantities	Description of Work	Rate	Amount	Amount of each part
		Rs. & P.	Rupees	Rupees
38	Sinking Brick wells filled with jelly & sand $\frac{1}{2}$ Complete — C	42	1596	
60989	Cy ^m Brick work in Chw —			
	— nam — $\frac{1}{2}$ Cy ^m	2 3	8577	
14676	D ² Arch work in D ² — D ²	3 6	3210	
	Erecting Centreing for the above arch with many wood planks for Stakes 3 rd Sort wall bricks in Clay for Piers & materials for ties & joints & Covering over with brick in Clay for forming intrados inclusive of mud plastering $\frac{1}{2}$ Complete & also Cooly hire for dismantling & Collecting the materials after the Completion of the work		600	
397	Cy ^m Cordon work in Chuanam $\frac{1}{2}$ Cy ^m 3		7 $\frac{1}{2}$	
	Carried Over			14057

Quantities.	Description of Work.	Rate.		Amount.	Amount of each part.
		Rs.	A. P.	Rupees.	Rupees.
	Brought Over			11,057	
26000	Suppl ^g Plastering with 2 Coats Chunar — 7 ¹ / ₂ Sq ^{rs} 2			520	
	Cooly hire for Cutting and removing part of the masonry of the present bridge excavating the foundation filling with earth over the arches & between the wing walls &c			600	
10500	Suppl ^g Laying road with laterite stone jelly in Clay & gravel of bin ^g thick & well beaten down with water & strewed over with sea sand 7 ¹ / ₂ 10 7			280	
	Constructing dam & Erecting Coffin dam by driving 2 Rows of Piles & facing them with fascine bundles				
	Stiff Clay Straw & scaffold- ing ropes & filling the in- termediate space with Common earth &c Complete				
	& also Cooly hire for main- taining & Collecting the above materials after the completion of the works			800	
	Carried over			16,257	

4

Quantities.	Description of work	Rate.		Amount.
		Rs.	A. P.	Rupees
	Brought Over			
	Sundry Charges 7 ¹ / ₂			235
	Total Rupees			17,400

Central Office of P. W.
 Chippank *W. H. Ross* Lieut. Colonel
 26th November 1860. Chief Engineer P. W.

Buckeye

June 0002816/60.

From The Chief Engineer
D. P. W.

To The Secretary to Gov^t
D. P. W.

Dated 26 Nov^r/60
Received

Ex. 10333

Abstract Estimate for
erecting the General
Hospital Board Bridge
from 25 to 40 feet in the
Clear & including the slope
of the 2 approaches to each
to put in the District of
Columbia & District of
Columbia

12 Dec 1860

Wm. H. H.

Enclosure

For a

W 2816/60.

From the Chief Engineer

G. P. M.

To the Secretary to Govt.

G. P. M.

Dated 26th Nov 760.

Received

No. 4333.

Abstract Estimate for

Widening the Basin

Bridge from 17³/₄ to 18 feet

in the Clear & reducing the

Slope of the 2 approaches

to one in 10 feet in the

District of Presidency.

Amounting to Rs 17950.

Quantities	Description of work	Rate	Amount	
			Rupias	Paisas
	Brought Over		16257	
	Sundry Charges & scaffolding &c		743	
				17000
	No. 2			
	Raising One approach on the east Side of the Bridge			
1778	Cy ^{as} Raising & filling with earth from the wing wall & well beaten down with water forming new slope of one in 10. &c Complete	13	139	
12000	Suppl ^{ts} Laying road with laterite Stone jelly in Clay & gravel of 6 in thick &c Complete	2 10 7	319	
	Sundry Charges &c		12	
				170
	No. 3			
	Raising One approach on the west Side of the Bridge.			
1833	Cy ^{as} Raising & filling with earth from the wing walls to the road & well beaten down with water for forming new slope of one in 40. &c Complete	13	143	
	Brought Over		143	17470

is to be devoted
to public works.
The estimates
will therefore
be excluded

from the

Fort St. George
12th Decr/60 } Budget.

J. D. S.

10 Copies. Chief Engineer, with 1 each
12 " Board of Revenue
3 " Accountant General

N^o. 7333

Central Office of P. M.
Chepauk
26th November 1860

From Lieut. Colonel M. H. Horsley
Chief Engineer S. P. M.

To J. D. Sim, Esq.
Acting Secretary to Government P. M.
Fort Saint George

Public

Sir,

Enclosures 6.

In para 5 of my predecessor's letter
N^o. 7130, dated 11th November 1859 it was reported
that Plans and Estimates for repairing, or
more properly improving, the Bridges over
Cochran's Canal near the General Hospital
and the Basin, were called for by this Office
These Plans and Estimates were forwarded
by the late Civil Architect on the 12th January
and 11th February last, but owing to the re-
striction on expenditure it was con-
sidered inexpedient to send them up
for sanction at that time, and I have
now the honor of submitting them to Govern-
ment for entry in the Budget of 1861/62
if approved of.

- 1 Letter from the Dist. Engr. Presidency
(late Civil Architect) N^o. 12th January 1860.
- 1 Abstract Est. N^o. 17400
- 1 Letter from the Civil Architect N^o. 138
dated 11th Febry 1860
- 1 Abstract Est. N^o. 17950
- 1 Plan of Genl. Hospital
Gate Bridge
- 1 Plan of the Basin
Bridge.

Of

2 Of the accompanying two Estimates, one amounting to Rupees 17,400, provides for widening the General Hospital Road Bridge from 25 to 40 feet, and reducing the slope of the two approaches to 1 in 40 feet, and the other amounting to Rupees 17,950, for widening the Basin Bridge from 17 3/4 to 40 feet, and reducing the slope of the approaches to the same extent. All that has been said in the letter, above quoted, respecting the traffic on the Elephant Gate Bridge, and the danger to which the Public are exposed by the narrowness of its roadway and the steepness of its approaches, is applicable to the Bridges, for the improvement of which, Estimates are now submitted. The traffic over the Hospital Bridge is believed to be even greater, while a large portion of the traffic coming down the Canal is carried over the Bridge at the Basin. I therefore, consider the proposed improvements, for widening their roadway and reducing the steepness of their approaches, to be very necessary; and I would recommend them to be carried into effect. The Estimate for

(12)

for the improvement of the Elephant Gate Bridge, amounting to Rupees 15,330 was sanctioned by Government in their orders, No 2735, dated 23rd November 1859. -

3 The want of additional waterway to these Bridges has been very perceptible during a heavy monsoon and especially since the construction of the Lock and Calingulah at Shadiencoopur, by which the escape of the flood water to the North is obstructed. I have, therefore, allowed for increasing the two side arches from 20 to 32 feet with proportionate elevation.

4 The Plans and Estimates now submitted have undergone the usual scrutiny and examination in this Office and, with the Estimate for the Elephant Gate Bridge, have been entered in the Budget for 1861/62, for which I have to request the sanction of Government. -

Central Office of P.M.
Chepauk
26th November 1860

I have the honor to be
Sir
Your most Obedt. Servant

Lt. Col. J. D. Pinn Esq.
Chief Engineer
Ag. Secretary to Government P.M.D.

E. M. H. W. M.

Nov 23rd Nov 1867 No 68-67.

From Chief Engineer 78th Regt 11/61
C 12298 in

20th 1868. To the
Secretary of the War

Dear Mr. General M. H. H. H. H.

Chief Engineer of the

L. O. J. in 1867,
Ap. 22nd to Government 1867.

First Joint George

Dated 26th 11/61
Re 22nd Nov 1860

Enclosed 28th 1863

Submits for sanction
and entry in the Budget of
1861/62, 2 Estimates one
for widening the Bridge at the
General Hospital and the
other for widening the Basin
Bridges, amounting to \$1400
and 17,950, respectively.

186539. 12th Dec^r

W. H. H. H. H.

C. 5. Dec 1867.

The Hon. the Governor in Council

approves the works proposed in the
letter and sanctions their being en-

tered in the Budget of 1861/62 at

the estimated cost respectively of

\$1,1400 for widening the Basin

and \$1,1400 for widening the

also authorizes the entry in the

same Budget of the Estimate for

the widening of the Basin

at \$1,1400 sanctioned at a cost
of \$1,1400 under date 23rd Dec^r
1867 12 29 35.

11/61